



1/10

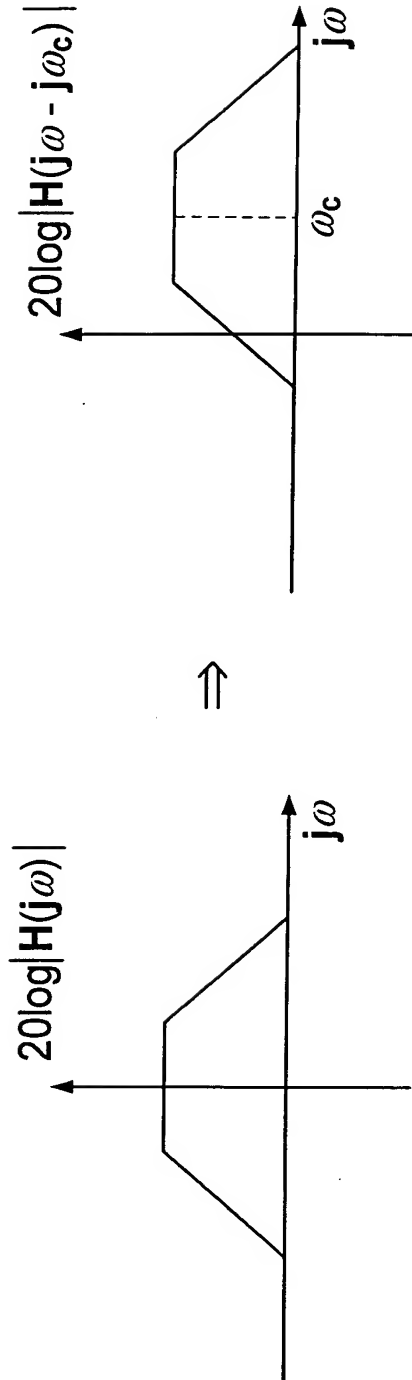


FIG. 1

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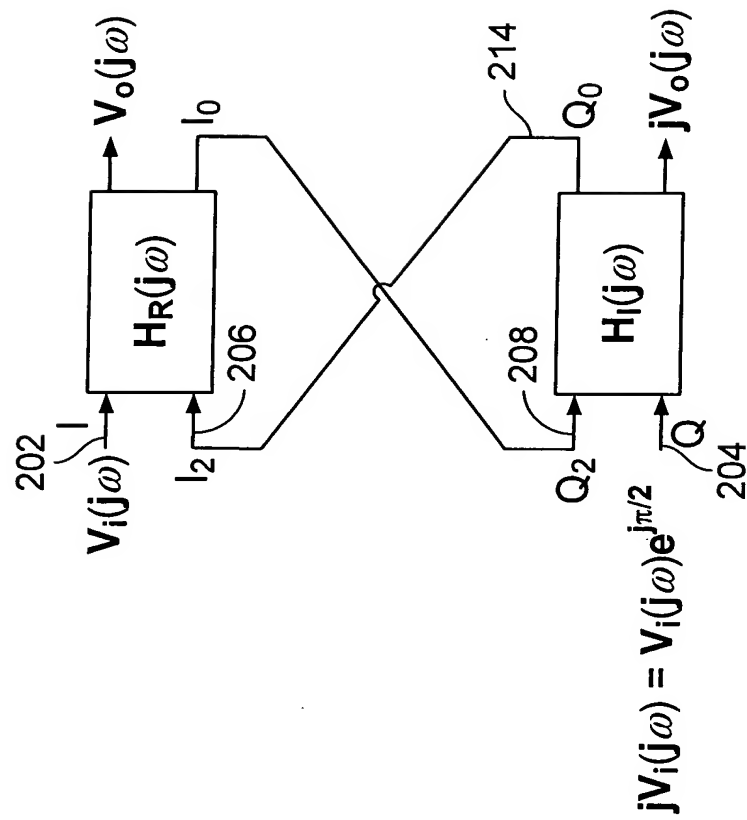


FIG. 2
 (Prior Art)

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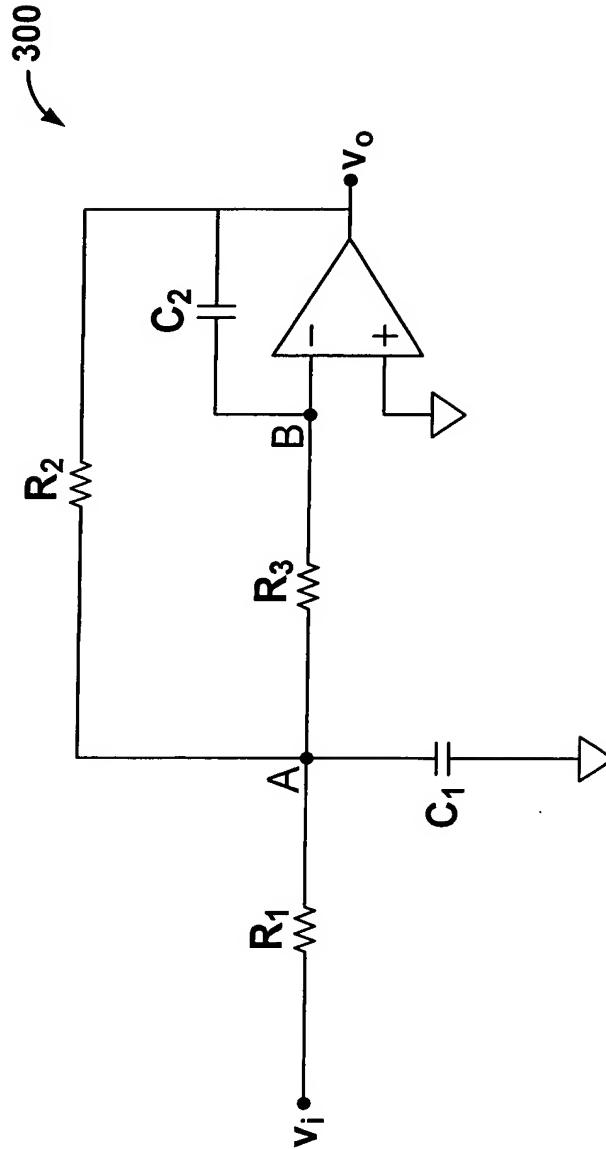


FIG. 3

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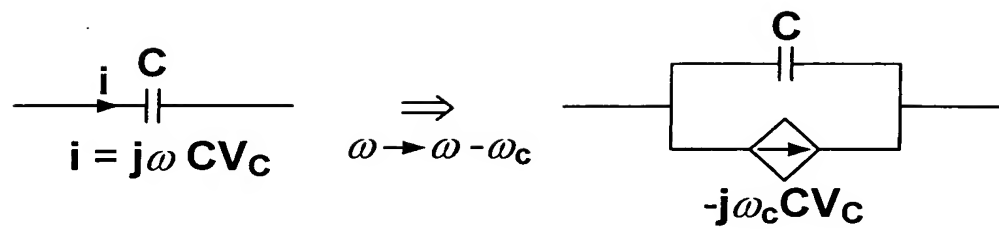


FIG. 4

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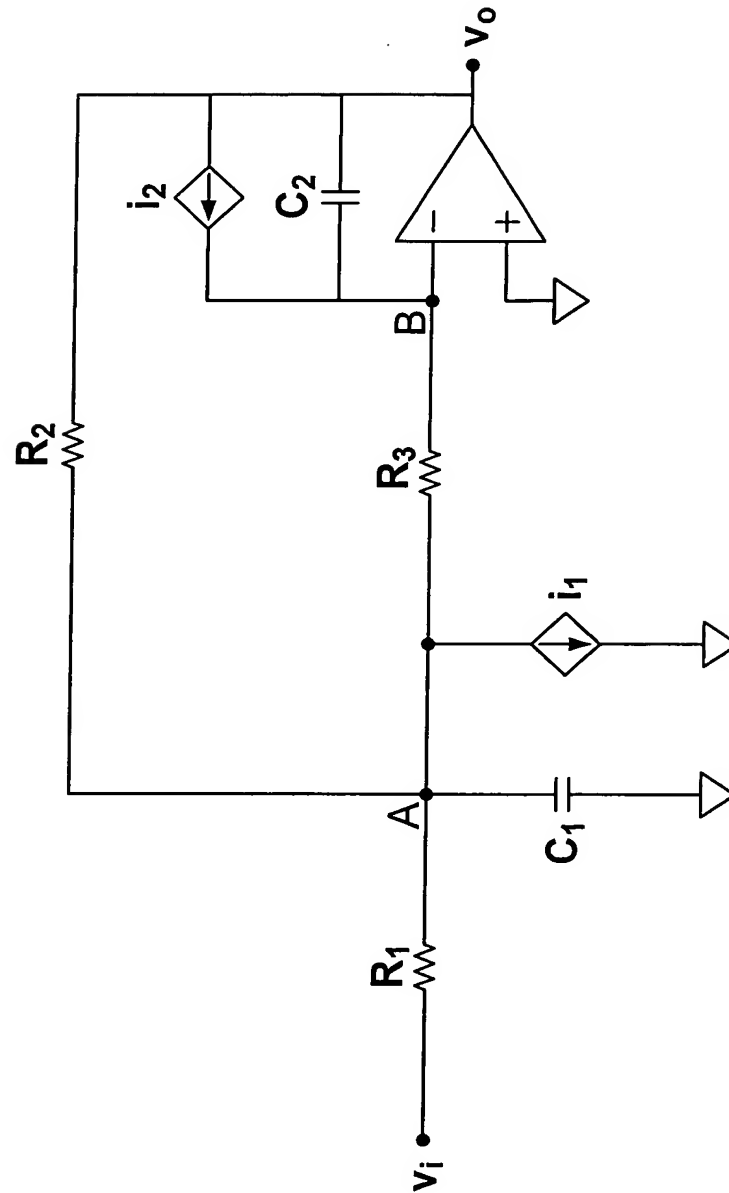


FIG. 5

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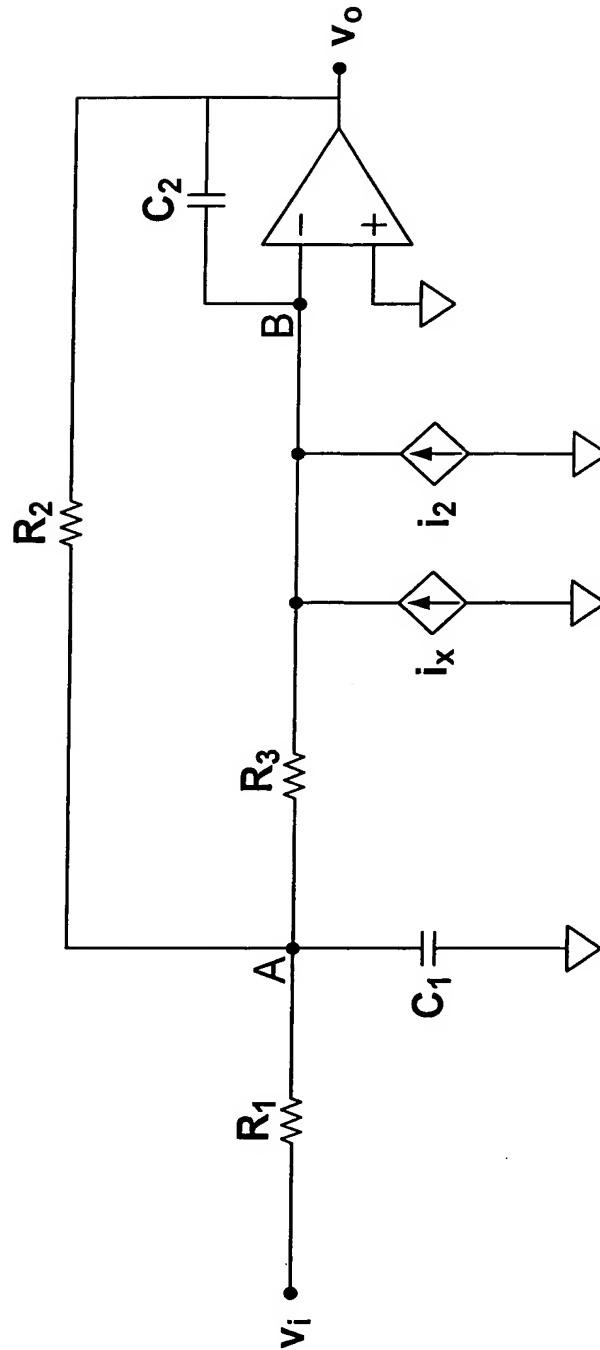


FIG. 6

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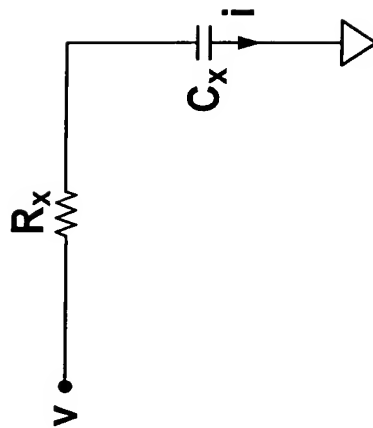


FIG. 7

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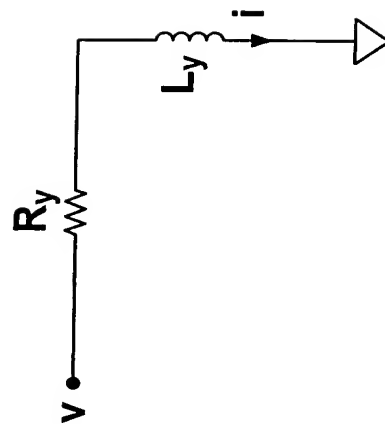


FIG. 8

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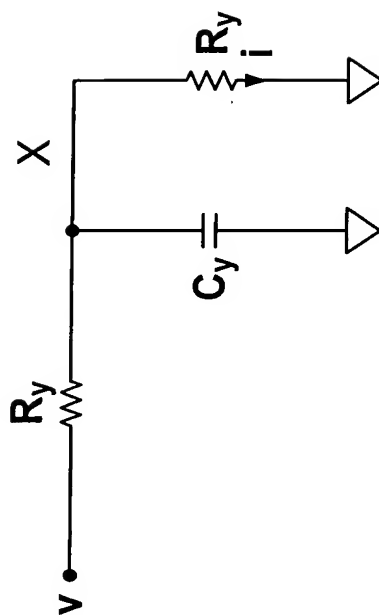
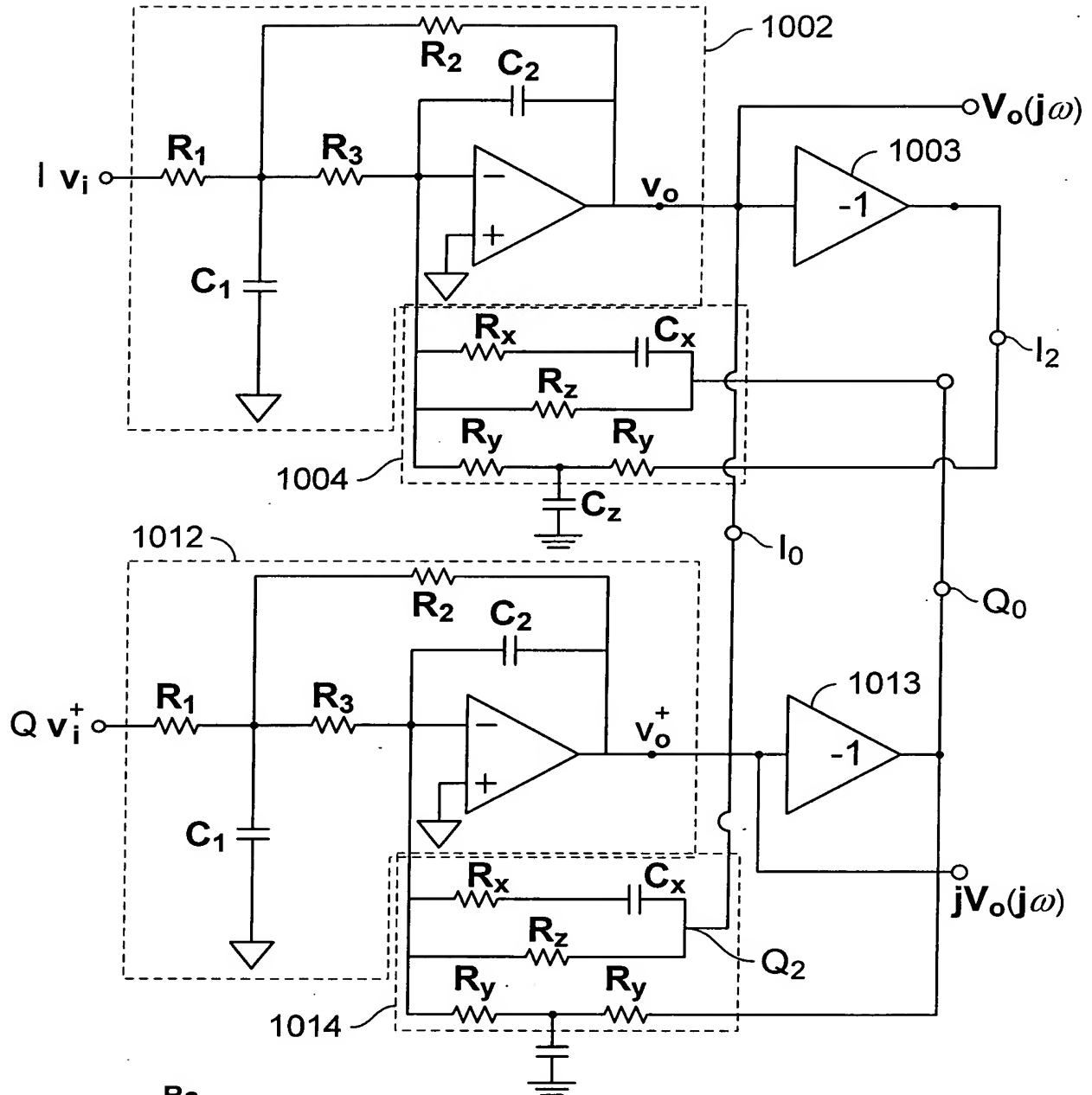


FIG. 9

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$$H_o = -\frac{R_2}{R_1}$$

$$\omega_o^2 = \frac{1}{C_1 C_2 R_2 R_3}$$

$$\frac{\omega_o}{Q} = \frac{1}{C_1} \left(\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} \right)$$

$$R_y = \frac{1}{2\omega_c^2 C_2} \frac{\omega_o}{Q}$$

$$C_y = \frac{2}{R_y} \frac{1}{\frac{\omega_o}{Q}} = 4\omega_c^2 C_2 \left(\frac{\omega_o}{Q} \right)^2$$

$$R_x = \frac{1}{\omega_c C_2}$$

$$C_x = \frac{1}{R_x \frac{\omega_o}{Q}} = \frac{\omega_c C_2}{\frac{\omega_o}{Q}}$$

FIG. 10